MMM	MMM	TTTTTTTTTTTTTT	ннн	HHH	RRRRRRRR	RRRR	TTTTTTTTTTTTTT	LLL
MMM	MMM	††††††††††††††††	ННН	ННН	RRRRRRRR		TTTTTTTTTTTTT	
MMM	MMM	ŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤ	ННН	ннн	RRRRRRR		i i i i i i i i i i i i i i i i i i i	
MMMMMM	MMMMMM	111	ННН	ннн	RRR	RRR	777	
MMMMMM	MMMMMM	+++						FFF
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	MMM MMM	111	HHH	HHH	RRR	RRR	TTT	LLL
MMM	MMM MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	<b>НИНИНИНИНИ</b>		RRRRRRRR		ŤŤŤ	ĬĬĬ
MMM	MMM	TTT	<b>НИНИНИНИНИ</b>		RRRRRRRR		ŤŤŤ	<i>ו</i> ווֹ דּ
MMM	MMM	ŤŤŤ	<b>НИНИНИНИНИ</b>		RRRRRRRR		ŤŤŤ	iii
MMM	MMM	ŤŤŤ	ННН	ннн	RRR RR		ŤŤŤ	ili
MMM	MMM	ŤŤŤ	ННН	ннн	RRR RR		ήii	
MMM	MMM	ή††	HHH	HHH	RRR RR		111	LLL
MMM		   T T						LLL
	MMM		ННН	ННН	RRR	RRR	ŢŢŢ	rrr
MMM	MMM	III	HHH	ННН	RRR	RRR	ŢŢŢ	LLL
MMM	MMM	TTT	ННН	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	HHH	HHH	RRR	RRR	TTT	
MMM	MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLLLLLLLLLLLLL
MMM	MMM	111	ННН	HHH	RRR	RRR	ŤŤŤ	

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MM MM MMM MMM MMMM MMM MMMM MMM MM MM MM	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	HH HHHHHHHHH	111111 11 11 11 11 11 11 11 11	HH H	NN NN NN NN NN NN NN NN NNNN NN	NN
		\$				

\*\*FILE\*\*ID\*\*MTHJIHNNT

```
MTHSJIHNNT
1-001
```

- Nearest Integer of H

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47 :

; MODIFIED BY:

16-SEP-1984 01:44:56 VAX/VMS Macro V04-00 F 6-SEP-1984 11:26:27 [MTHRTL.SRC]MTHJIHNNT.MAR;1 Page

Ta

.TITLE MTH\$JIHNNT - Nearest Integer of H ŎŎŎŎ .IDENT /1-001/ ; File: MTHJIHNNT.MAR ŎŎŎŎ COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. . ALL RIGHTS RESERVED. 10 :\* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY 11 \* 12 \* 13 \* 13 \* \* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY \* \* \* TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT 28: 29: FACILITY: MATH LIBRARY 30:++ 33 Return nearest integer of a REAL\*16 to a INTEGER\*4. 35 :--37 : VERSION: 1 : HISTORY: 40 ; 41 ; AUTHOR: Steven B. Lionel, 21-Aug-1979

```
L 3
MTHSJIHNNT
1-001
                                      - Nearest Integer of H 16-SEP-1984 01:44:56 VAX/VMS Macro V04-00 MTH$JIHNNT - return nearest integer as I 6-SEP-1984 11:26:27 [MTHRTL.SRC]MTHJIHNNT.MAR;1
                                                      82
83
                                                                   .SBTTL MTH$JIHNNT - return nearest integer as INTEGER*4
                                             ŎŎŎŎ
                                                          : FUNCTIONAL DESCRIPTION:
                                                           Returns the nearest integer (rounded away from zero) of a REAL*16 to a INTEGER*4 as a function value.
                                                      90
91
93
93
                                             0000
                                                           CALLING SEQUENCE:
                                             0000
                                             0000
                                                                   result.wl.v = MTH$JIHNNT (arg.rh.r)
                                                      95
96
97
                                                          : INPUT PARAMETERS:
                                00000004
                                                                   arg = 4
                                                                                      ; H floating argument
                                             0000
                                                            IMPLICIT INPUTS:
                                                                   NONE
                                                     101
                                                            OUTPUT PARAMETERS:
                                                     102
                                                                   NONE
                                             0000
                                             0000
                                                     104
                                                            IMPLICIT OUTPUTS:
                                             0000
                                                     105
                                                                   NONE
                                             0000
                                                     106
                                            0000
                                                     107
                                                            FUNCTION VALUE:
                                             0000
                                                     108
                                                                   The argument rounded to the nearest longword integer away from
                                             0000
                                                     109
                                                                   zero.
                                            0000
                                                    110
                                                    111
                                                           SIDE EFFECTS:
                                                    112
                                                                   Reserved operand, Integer overflow exceptions.
                                                    114
                                                    115
                                                                   .ENTRY MTH$JIHNNT,
                                                                                                <VI>M<IV>
                              04 BC 6BFD
                                                                   CVTRHL @arg(AP), RO
                                                                                                         : RO = rounded argument
                                                                   RET
                                                                   .END
```

```
THANT LEHTM
                                                                                        16-SEP-1984 01:44:56 VAX/VMS Macro V04-00 6-SEP-1984 11:26:27 [MTHRTL.SRC]MTHJIHNNT.MAR:1
                                      - Nearest Integer of H
Symbol table
                                                                                                                                                            (4)
                  = 00000004
MTH$JIHNNT
                    00000000 RG
                                       01
                                                            Psect synopsis!
PSECT name
                                       Allocation
                                                               PSECT No.
                                                                            Attributes
   ABS
                                       00000000
                                                                      0.)
                                                                                             CON
                                                                                                           LCL NOSHR NOEXE NORD
                                                                                                                                      NOWRT NOVEC BYTE
MTH$CODE
                                                               01 (
                                      00000008
                                                                                     USR
                                                                                             CON
                                                                                                    REL
                                                                                                                  SHR
                                                                                                                         EXE
                                                                                                                                 RD
                                                                                                                                      NOWRT NOVEC LONG
                                                        Performance indicators
Phase
                              Page faults
                                                CPU Time
                                                                  Elapsed Time
                                                                  00:00:01.62
00:00:03.23
00:00:01.82
                                                00:00:00.09
Initialization
Command processing
                                       116
                                                00:00:00.42
                                                00:00:00.36
Pass 1
                                        65
                                         0
                                                00:00:00.00
Symbol table sort
                                                                  00:00:00.00
                                                00:00:00.27
Pass 2
                                        4Ŏ
                                                                  00:00:01.19
                                                00:00:00.01
Symbol table output
                                                                  00:00:00.01
Psect synopsis output
                                                00:00:00.02
                                                                  00:00:00.02
Cross-reference output
                                                00:00:00.00
                                                                  00:00:00.00
Assembler run totals
                                       256
                                                00:00:01.17
                                                                  00:00:07.89
The working set limit was 750 pages. 1165 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 2 non-local and C local symbols. 123 source lines were read in Pass 1, producing 10 object records in Pass 2.
O pages of virtual memory were used to define 0 macros.
                                                       Macro library statistics !
Macro library name
                                                      Macros defined
                                                                   0
_$255$DUA28:[SYSLIB]STARLET.MLB:2
```

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:MTHJIHNNT/OBJ=OBJ\$:MTHJIHNNT MSRC\$:MTHJIHNNT/UPDATE=(ENH\$:MTHJIHNNT)

0263 AH-BT13A-SE

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